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This Raw Listing contains the General Information Section and up to the first 5 pages.

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## SEQUENCE LISTING

1

2

## 3 (1) General Information:

4

5 (i) APPLICANT: Barany, Francis  
6 Barany, George  
7 Hammer, Robert P.  
8 Kempe, Maria  
9 Blok, Herman  
10 Zirvi, Monib

11

12 (ii) TITLE OF INVENTION: DETECTION OF NUCLEIC ACID SEQUENCE  
13 DIFFERENCES USING THE LIGASE DETECTION REACTION WITH  
14 ADDRESSABLE ARRAYS

15

16 (iii) NUMBER OF SEQUENCES: 16

17

18 (iv) CORRESPONDENCE ADDRESS:

19 (A) ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
20 (B) STREET: Clinton Square, P.O. Box 1051  
21 (C) CITY: Rochester  
22 (D) STATE: New York  
23 (E) COUNTRY: U.S.A.  
24 (F) ZIP: 14603

25

26 (v) COMPUTER READABLE FORM:

27 (A) MEDIUM TYPE: Floppy disk  
28 (B) COMPUTER: IBM PC compatible  
29 (C) OPERATING SYSTEM: PC-DOS/MS-DOS  
30 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30

31

32 (vi) CURRENT APPLICATION DATA:

33 (A) APPLICATION NUMBER: US 08/794,851  
34 (B) FILING DATE: 04-FEB-1997  
35 (C) CLASSIFICATION:

36

37 (vii) PRIOR APPLICATION DATA:

38 (A) APPLICATION NUMBER: US 60/011,359  
39 (B) FILING DATE: 09-FEB-1996

40

41 (viii) ATTORNEY/AGENT INFORMATION:

42 (A) NAME: Goldman, Michael L.  
43 (B) REGISTRATION NUMBER: 30,727  
44 (C) REFERENCE/DOCKET NUMBER: 19603/461

45

46 (ix) TELECOMMUNICATION INFORMATION:

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/794,851DATE: 08/22/97  
TIME: 14:56:28

INPUT SET: S19830.raw

47 (A) TELEPHONE: (716) 263-1304  
48 (B) TELEFAX: (716) 263-1600

49

50

51 (2) INFORMATION FOR SEQ ID NO:1:

52

53 (i) SEQUENCE CHARACTERISTICS:  
54 (A) LENGTH: 10 base pairs  
55 (B) TYPE: nucleic acid  
56 (C) STRANDEDNESS: single  
57 (D) TOPOLOGY: linear

58

59 (ii) MOLECULE TYPE: cDNA

60

61

62

63

64 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

65

66 CACACACACA

10

67

68 (2) INFORMATION FOR SEQ ID NO:2:

69

70 (i) SEQUENCE CHARACTERISTICS:  
71 (A) LENGTH: 24 base pairs  
72 (B) TYPE: nucleic acid  
73 (C) STRANDEDNESS: single  
74 (D) TOPOLOGY: linear

75

76 (ii) MOLECULE TYPE: cDNA

77

78

79

80

81 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

82

83 TGCAGGTACA GCACCTACCT TGCG

24

84

85 (2) INFORMATION FOR SEQ ID NO:3:

86

87 (i) SEQUENCE CHARACTERISTICS:  
88 (A) LENGTH: 24 base pairs  
89 (B) TYPE: nucleic acid  
90 (C) STRANDEDNESS: single  
91 (D) TOPOLOGY: linear

92

93 (ii) MOLECULE TYPE: cDNA

94

95

96

97

98 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

99

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/794,851DATE: 08/22/97  
TIME: 14:56:31

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100 ATCGGGTAGG TAACCTTGCG TGCG

24

101

102 (2) INFORMATION FOR SEQ ID NO:4:

103

104 (i) SEQUENCE CHARACTERISTICS:

105 (A) LENGTH: 24 base pairs  
106 (B) TYPE: nucleic acid  
107 (C) STRANDEDNESS: single  
108 (D) TOPOLOGY: linear

109

110 (ii) MOLECULE TYPE: cDNA

111

112

113

114

115 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

116

117 CAGCGGTAGA CCACCTATCG TGCG

24

118

119 (2) INFORMATION FOR SEQ ID NO:5:

120

121 (i) SEQUENCE CHARACTERISTICS:  
122 (A) LENGTH: 24 base pairs  
123 (B) TYPE: nucleic acid  
124 (C) STRANDEDNESS: single  
125 (D) TOPOLOGY: linear

126

127 (ii) MOLECULE TYPE: cDNA

128

129

130

131

132 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

133

134 GGTAGGTAAC CTACCTCAGC TGCG

24

135

136 (2) INFORMATION FOR SEQ ID NO:6:

137

138 (i) SEQUENCE CHARACTERISTICS:  
139 (A) LENGTH: 24 base pairs  
140 (B) TYPE: nucleic acid  
141 (C) STRANDEDNESS: single  
142 (D) TOPOLOGY: linear

143

144 (ii) MOLECULE TYPE: cDNA

145

146

147

148

149 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

150

151 GACCGGTATG CGACCTGGTA TGCG

24

152

**RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/794,851**DATE: 08/22/97  
TIME: 14:56:33**INPUT SET: S19830.raw**

153 (2) INFORMATION FOR SEQ ID NO:7:

154

155 (i) SEQUENCE CHARACTERISTICS:  
156 (A) LENGTH: 24 base pairs  
157 (B) TYPE: nucleic acid  
158 (C) STRANDEDNESS: single  
159 (D) TOPOLOGY: linear

160

161 (ii) MOLECULE TYPE: cDNA

162

163

164

165

166 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

167

168 ATCGGGTAGG TAACCTTGCG TGCG

24

169

170 (2) INFORMATION FOR SEQ ID NO:8:

171

172 (i) SEQUENCE CHARACTERISTICS:  
173 (A) LENGTH: 24 base pairs  
174 (B) TYPE: nucleic acid  
175 (C) STRANDEDNESS: single  
176 (D) TOPOLOGY: linear

177

178 (ii) MOLECULE TYPE: cDNA

179

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181

182

183 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

184

185 GGTAGGTAAC CTACCTCAGC TGCG

24

186

187 (2) INFORMATION FOR SEQ ID NO:9:

188

189 (i) SEQUENCE CHARACTERISTICS:  
190 (A) LENGTH: 24 base pairs  
191 (B) TYPE: nucleic acid  
192 (C) STRANDEDNESS: single  
193 (D) TOPOLOGY: linear

194

195 (ii) MOLECULE TYPE: cDNA

196

197

198

199

200 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

201

202 ATCGGGTAGG TAACCTTGCG TGCG

24

203

204 (2) INFORMATION FOR SEQ ID NO:10:

205

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/794,851DATE: 08/22/97  
TIME: 14:56:35

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206       (i) SEQUENCE CHARACTERISTICS:  
207           (A) LENGTH: 24 base pairs  
208           (B) TYPE: nucleic acid  
209           (C) STRANDEDNESS: single  
210           (D) TOPOLOGY: linear

211       (ii) MOLECULE TYPE: cDNA

212  
213  
214  
215  
216

217       (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:  
218

219       GGTAGGTAAC CTACCTCAGC TGCG

24

220       (2) INFORMATION FOR SEQ ID NO:11:

221  
222

223       (i) SEQUENCE CHARACTERISTICS:  
224           (A) LENGTH: 24 base pairs  
225           (B) TYPE: nucleic acid  
226           (C) STRANDEDNESS: single  
227           (D) TOPOLOGY: linear

228       (ii) MOLECULE TYPE: cDNA

229  
230  
231  
232  
233

234       (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:

235       ATCGGGTAGG TAACCTTGCG TGCG

24

236       (2) INFORMATION FOR SEQ ID NO:12:

237  
238

239       (i) SEQUENCE CHARACTERISTICS:  
240           (A) LENGTH: 24 base pairs  
241           (B) TYPE: nucleic acid  
242           (C) STRANDEDNESS: single  
243           (D) TOPOLOGY: linear

244       (ii) MOLECULE TYPE: cDNA

245  
246  
247  
248  
249  
250

251       (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:

252       CAGCACCTGA CCATCGATCG CAGC

24

253       (2) INFORMATION FOR SEQ ID NO:13:

254  
255

256       (i) SEQUENCE CHARACTERISTICS:  
257           (A) LENGTH: 24 base pairs

PAGE: 1

**SEQUENCE VERIFICATION REPORT  
PATENT APPLICATION US/08/794,851**

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